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(54) POLYNUCLEOTIDE FOR DETECTING
BACILLUS ANTHRACIS AND METHOD FOR
DETECTION USING THE SAME

(57) Abstract:

PURPOSE: To obtain a new oligonucleotide having high specificity as a primer for detecting Bacillus anthracis.

CONSTITUTION: This oligonucleotide is complementary to a nucleotide sequence capable of coding a capA gene of a plasmid of Bacillus anthracis and has a sequence group expressed by the formula or a

complementary sequence corresponding thereto. The polynucleotide is obtained by chemically synthesizing two kinds of synthetic oligonucleotides (MO1 and MO2) with high contents of guanine and cytosine residues from 288 bases of the base sequence in the capA gene of the Bacillus anthracis according to a triester method using a DNA synthesizer manufactured by Applied Biosystems, Inc. and purifying the resultant oligonucleotides with a C18 reversed phase column.

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5' >GCTGATCTTGACTATGTGGGTG<3'MO1
5' >GGCTCAGGATCTGTCCTTCGG<3'MO2